Chemistry and Physics of Lipids, 49 (1988) 297—298
Elsevier Scientific Publishers Ireland Ltd.

Contents

Volume 49 (1989)

Nos. 1, 2

P.W. Schwartz, B.E. Tropp and E. Engel (Flushing, NY), *Phosphonolipids. The synthesis of chiral vinylic phosphonolipid analogues of phosphatidic acid and phosphatidyl choline* 1
D.K. Sukumaran and S. Ohki (Buffalo, NY), *Effect of monovalent cations on polyvalent cation-induced fusion of phosphatidylserine small unilamellar vesicles* 9
D.B. Fenske and R.J. Cushley (Burnaby, Canada) *Soluble complex formation between low-density lipoprotein and glycosaminoglycans. A ^{2}H and ^{31}P-NMR, and quasi-elastic light scattering study* 15
J. Dabrowski, K. Trauner, K. Koike and T. Ogawa (Heidelberg, F.R.G. and Saitama, Japan), *Complete ^{1}H-NMR spectral assignments for globotriaosyl-Z- and isoglobotriaosyl-E-ceramide* 31
D.G. Rhodes, S.L. Blechner, P. Yager and P.E. Schoen (Farmington and Storrs, CT and Washington DC), *Structure of polymerizable lipid bilayers. I 1,2-bis (10,12-tricosadiynoyl)-sn-glycero-3-phosphocholine, a tubule-forming phosphatidylcholine* 39
B.A. Holm, G. Enhorning and R.H. Notter (Buffalo and Rochester, NY), *A biophysical mechanism by which plasma proteins inhibit lung surfactant activity* 49
I. Chatterjee, P. Nandy and B.B. Bhowmik (Calcutta, India), *Nature of interaction of phospholipid liposome with iodine* 57
K. Larsson (Lund, Sweden), *Lipid phase transitions in membranes involving intrinsic periodic curvature* 65
T. Nishiya, Y. Okumura and T.M.S. Chang (Montreal, Canada and Kyoto, Japan), *Syntheses and properties of circular dichroism active phospholipids* 69
B.D. Flemming and K.M.W. Keough (St. John's, Canada), *Surface respreading after collapse of monolayers containing major lipids of pulmonary surfactant* 81
J.R. Cavanaugh and P.E. Pfeffer (Philadelphia, PA), *^{19}F-Nuclear magnetic resonance of fluorine-labeled fatty acids in phospholipid bilayer vesicles* 87
E. Santaniello, R. Casati, L. Ceriani, P. Ferraboschi and P. Grisenti (Milan, Italy), *Synthesis of 3-methyl-1,3,5-pentanetriol and its mono- and diesters* 97
R.M. Epand and R.F. Epand (Hamilton, Canada) *Kinetic effects in the differential scanning calorimetry cooling scans of phosphatidylethanolamines* 101
R.M. Epand, W.K. Surewicz and P. Yeagle (Hamilton, Canada and Buffalo, NY), *Role of peptide structure in lipid-peptide interactions: nuclear magnetic resonance study of the interaction of pentagastrin and [Arg^{4}]pentagastrin with dimyristoylphosphatidylcholine* 105
G.G. Montich, J.J. Cosa and B. Maggio (Córdoba, Argentina), *Interaction of 1-anilinonaphthalene 8-sulfonic acid with interfaces containing cerebrosides, sulfatides and gangliosides* 111
E.J. Parish, M. Tsuda and G.J. Schroepfer, Jr. (Houston, TX) *Stereospecific 1,4-addition to an α,β-unsaturated steriodal epoxide: syntheses of new 15-oxygenated sterols* 119
P.W. Schwartz, B.E. Tropp and R. Engel (Flushing, NY), *Phosphonolipids. 2. α-Hydroxyphosphonolipid analogues of phosphatidic acid* 131
G. Cervato, P. Viani, M. Masserini, C. Di Iorio and B. Cestaro (Milan, Italy), *Studies on peroxidation of arachidonic acid in different liposomes below and above phase transition temperature* 135
Announcment 141

No. 3

E. Hantz, A. Cao and E. Taillandier (Bobigny, France), *Effect of ethanol on dimyristoylphosphatidylcholine large unilamellar vesicles investigated by quasi-elastic light scattering and vibrational spectroscopy* 143

M.F. Dumon, Q.Q. Dang, R. Salvayre, M. Clerc and L. Douste-Blazy (Bordeaux and Toulouse, France), *Modified lipid-protein interactions in Tangier β lipoprotein (LDL_2) demonstrated by fluorescence quenching* 153

P. Lerouge, M.-H. Lebas, C. Agapakis-Caussé and J.-C. Promé (Toulouse, France), *Isolation and structural characterization of a new non-phosphorylated lipoamino acid from Mycobacterium phlei* 161

M.S.F. Lie Ken Jie and Y.F. Zheng (Hong Kong), *Synthesis and physical properties of some 2,3- and 2,2'-epithio C_{18} fatty acid derivatives* 167

A. Sen and S.-W. Hui (Buffalo, NY), *Direct measurement of headgroup hydration of polar lipids in inverted micelles* 179

E.N. Ivessa, E. Kalb, F. Paltauf and A. Hermetter (Graz, Austria), *Diphenylhexatrienyl-propanoylhydrazyl stachyose: a new oligosaccharide derivative of diphenylhexatriene. Synthesis and fluorescence properties in artificial membranes* 185

J. Cirák and L.I. Horváth (Bratislava, Czechoslovakia and Szeged, Hungary), Effect of lateral chain-chain spacing on the Raman spectrum of dipalmitoyl phosphatidylcholine bilayers 197

J. Yue, J.L. Thewalt and R.J. Cushley (Burnaby, Canada), *Deuterium nuclear magnetic resonance study of the interaction of branched chain compounds (phytanic acid, phytol) with a phospholipid model membrane* 205

N.L. Parinandi, B.K. Weis and H.H.O. Schmid (Austin, MN) *Assay of cardiolipin peroxidation by high-performance liquid chromatography* 215

No. 4

M. Alaiz, M.P. Maza, R. Zamora, F.J. Hidalgo, F. Millán and E. Vioque (Sevilla, Spain), *Epoxidation of ethyl (Z)-9-(Z)-12-(Z)-15-octadecatrienoate with m-chloroperbenzoic acid* 221

K. Mukai and M. Ishinaga (Hiroshima, Japan), *Effect of propylgallate on a dipalmitoylphosphatidylglycerol and calcium mixture* 225

M. Flörsheimer and H. Möhwald (Mainz, F.R.G.), *Development of equilibrium domain shapes in phospholipid monolayers* 231

T.N. Pajewski, J.S. Brabson, A. Kisic, K.-S. Wang, M.D. Hylarides, E.M. Jackson and G.J. Schroepfer, Jr., (Houston and San Antonio, TX), *Inhibitors of sterol synthesis. Metabolism of [2,4-^{3}H]5α-cholest-8(14)-en-3β-ol-15-one after oral administration to a nonhuman primate* 243

J.B. Finean (Birmingham, U.K.), *X-ray diffraction studies of lipid phase transitions in hydrated mixtures of cholesterol and diacylphosphatidylcholines and their relevance to the structure of biological membranes* 265

T.J. Racey, M.A. Singer, L. Finegold and P. Rochon (Kingston, Canada and Philadelphia, PA), *The influence of fatty acyl chain length and head group on the size of multilamellar vesicles* 271

Announcements 289

Subject Index — Volume 49 291

Author Index — Volume 49 295

Contents — Volume 49 297